



PTO/SB/08a/b (07-05)

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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete If Known</b>	
				Application Number	10/770,256-Conf. #9618
				Filing Date	February 2, 2004
				First Named Inventor	Thomas E. Speer
				Art Unit	3661
				Examiner Name	C. M. Behncke
Sheet	1	of	3	Attorney Docket Number	030048104US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/C.B./		US-20030058134-A1	03-27-2003	Sherry et al.	
		US-20030197097-A1	10-23-2003	WAKAYAMA	
		US-20050109876-A1	05-26-2005	Jones	
		US-20050242234	11-03-2005	Mahmulyin	
		US-1,724,456	08-13-1929	Crook	
		US-2,086,085	07-06-1937	Lachmann et al.	
		US-2,282,516	05-12-1942	Hans et al.	
		US-2,289,704	07-14-1942	Grant	
		US-2,319,383	05-18-1943	Zap	
		US-2,383,102	08-21-1945	Zap	
		US-2,385,351	09-25-1945	Davidson	
		US-2,389,274	11-20-1945	Pearsall et al.	
		US-2,406,475	08-27-1946	Rogers	
		US-2,444,293	06-18-1943	Holt	
		US-2,563,453	08-07-1951	Briend	
		US-2,877,968	03-17-1959	Granat et al.	
		US-2,899,152	08-11-1959	Weiland	
		US-2,938,680	05-31-1960	Greene et al.	
		US-3,013,748	12-19-1961	Westburg	
		US-3,089,666	05-14-1963	Quenzler	
		US-3,203,647	08-31-1965	Alvarez-Calderon	
		US-3,528,632	09-15-1970	Miles et al.	
		US-3,642,234	02-15-1972	Kamber et al.	
		US-3,677,504	07-18-1972	Schwarzler	
		US-3,767,140	10-23-1973	Johnson	
		US-3,827,658	08-06-1974	Hallworth	
		US-3,897,029	07-29-1975	Calderon	
		US-3,904,152	09-09-1975	Hill	
		US-3,917,192	11-04-1975	Alvarez-Calderon	
		US-3,949,957	04-13-1976	Portier et al.	
		US-3,987,983	09-28-2004	Cole et al.	
		US-4,141,768	10-16-2003	Lo et al.	
		US-4,202,519	05-13-1980	Fletcher	
		US-4,283,029	08-11-1981	Rudolph	
		US-4,360,176	11-23-1982	Brown	
		US-4,528,775	07-16-1985	Einarsson	
		US-4,544,117	10-01-1985	Schuster	
		US-4,575,099	03-11-1986	Nash	
		US-4,712,752	12-15-1987	Victor	
		US-4,823,836	04-25-1989	Bachmann et al.	
/C.B./		US-4,838,503	06-13-1989	Williams et al.	

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/C.B./	US-4,892,274	01-09-1990	Pohl et al.	
	US-5,039,032	08-13-1991	Rudolph	
	US-5,050,081	09-17-1991	Abbott et al.	
	US-5,082,207	01-21-1992	Tulinus	
	US-5,388,788	02-14-1995	Rudolph	
	US-5,493,497	02-20-1996	Buus	
	US-5,542,684	08-06-1996	Squirrel	
	US-5,681,014	10-28-1997	Palmer	
	US-5,735,485	04-07-1998	Ciprian et al.	
	US-5,746,490	05-05-1998	GEORG DOMENIG	
	US-5,839,698	11-24-1998	Moppert	
	US-6,152,405	11-28-2000	Muller et al.	
	US-6,164,598	12-26-2000	Young et al.	
	US-6,189,837	02-20-2001	Matthews	
	US-6,227,498	05-08-2001	Arata	
	US-6,244,542	06-12-2001	Young et al.	
	US-6,349,903-A1	02-26-2002	Caton et al.	
	US-6,439,512	08-27-2002	Hart	
	US-6,481,667	11-19-2002	Ho	
	US-6,622,974-A1	09-23-2003	Dockter et al.	
	US-6,729,583	05-04-2004	Milliere et al.	
	US-6,796,526-A1	09-28-2004	Boehringer	
	US-6,802,475-A1	10-12-2004	Davies et al.	
	US-6,870,490-A1	03-22-2005	Sherry et al.	
	US-7,028,948-A1	04-18-2006	Pitt	
	US-7,048,228-A1	05-23-2006	Vassberg et al.	
	US-7,048,235-A1	05-23-2006	McLean et al.	
/C.B./	US-7,059,563-A1	06-13-2006	Huynh	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
/C.B./		DE-1129379	05-10-1962	Dornier Werke GMBH		
		DE-387833	01-04-1924	Handley Page Ltd.		
		EP-0 483 504 A1	05-06-1992	Deutsche Airbus GmbH		
		EP-0100775 A1	02-22-1984	The Boeing Company		
		EP-0781704 A1	02-07-1997	The Boeing Company		
		EP-1 547 917 A1	06-29-2005	Airbus Deutschland GmbH		
		EP-1010618	06-21-2000	Daimler Chrysler Ag		
		FR-56121	09-17-1952	Holste Max-Louis		
		FR-57988	09-18-1953	Lemoigne Pierre-Marcel		
		FR-58273	11-18-1953	Lemoigne Pierre-Marcel		
		FR-705155	06-02-1931	Bechereau Louis		
/C.B./		FR-984443	07-05-1951	Holste Max-Louis		
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/C.B./	GB-1181991 A	02-18-1970	Lanier		
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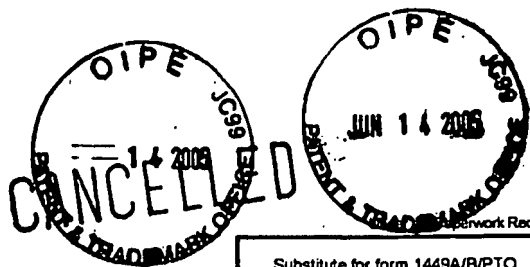
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/C.B./		"Adaptive Aircraft: No Flight of Fancy?" Research into using exotic means of making wings change shape in-flight looks promising, though still a long way from reality," Business Week Online, 1/7/2003, pgs 1-3	
/C.B./		"Aero-Space Research & Technology," Space Systems, September 1, 2001, pgs 1-28	
/C.B./		Leaf Spring Retainer Seals; EMP, Inc.; 2 pgs	
/C.B./		Morphing Aircraft Structures, "Morphing Aircraft Structures-Raytheon," << <a href="http://www.defense-update.com/products/m/morphing-structures.htm">http://www.defense-update.com/products/m/morphing-structures.htm</a> >>, Pages 1-3, [Accessed 08/31/05]	
/C.B./		Morphing Aircraft Structures, "Morphing Aircraft Structures-The Cellular Approach," < <a href="http://www.personal.psu.edu/users/d/s/dsr134/mas/Cellular.htm">http://www.personal.psu.edu/users/d/s/dsr134/mas/Cellular.htm</a> >, Penn State University, pages 1-3 [Accessed 08/31/05]	
/C.B./		Morphing Systems, "Morphing Aerostructures-An Overview," <a href="http://www.crrp.net/morphingsystems.htm">www.crrp.net/morphingsystems.htm</a> < <a href="http://www.crrp.net/morphingsystems.htm">http://www.crrp.net/morphingsystems.htm</a> >, Pages 1-9, [Accessed 08/31/05]	

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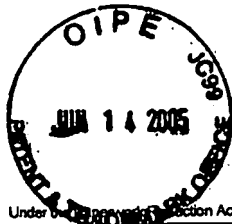
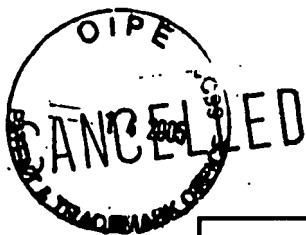
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/C.B./                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <					

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/C.B./		Drela, M., "Optimization Techniques In Airfoil Design," MIT Aero & Astro, 29 pages	
		DRELA, Mark, "Design and Optimization Method for Multi-Element Airfoils," MIT Department of Aeronautics and Astronautics, Copyright 1993 American Institute of Aeronautics and Astronautics, Inc. (pgs 1-11)	
		HANSEN, H., "Application of Mini-Trailing-Edge Devices in the Awiator Project," Airbus Deutschland, EGAG, Hunefeldstr. 1-5, D-28199 Bremen, Germany, 9 pages	
		Junkers JU 52/3M (2 pages); <a href="http://www.wpafb.af.mil/museum/outdoor/od16">http://www.wpafb.af.mil/museum/outdoor/od16</a> [Accessed 8/7/03]	
		Petrov, A.V., "Certain Types of Separated Flow over Slotted Wings," Fluid Mechanics - Soviet Research, Vol 7, No. 5, September-October 1978	
		The High Speed Frontier, Chapter 2: The High-Speed Airfoil Program, "SUPERCritical" AIRFOILS, 1957-1978 (4 pages); <a href="http://www.hq.nasa.gov/office/pao/History/SP-445/ch2-5">http://www.hq.nasa.gov/office/pao/History/SP-445/ch2-5</a>	
		TU 1-44 Canard, 1 pg, date unknown	
		TUCKER et al., "Enhanced Vertical Situation Display", filed June 30, 2004, 11 pgs; Attorney Docket No. 30302/016427	
/C.B./		Whitcomb, Richard T., "Review of NASA Supercritical Airfoils," National Aeronautics and Space Administration, August 1974 (pages 8-18)	

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/C.B./		US-1,770,575	07-15-1930	Ksoll	
/C.B./		US-10/746,883		Boorman	
/C.B./		US-10/746,912		Boorman	
/C.B./		US-10/787,644		Tafs et al.	
/C.B./		US-10/798,749		Sandell et al.	
/C.B./		US-10/814,369		Chen et al.	
/C.B./		US-10/814,494		Gunn et al.	
/C.B./		US-10/815,034		Crane et al.	
/C.B./		US-2,387,492	10-23-1945	Blaylock et al.	
		US-2,422,296	06-17-1947	Flader et al.	
		US-2,458,900	01-11-1949	Emy	
		US-2,652,812	09-22-1953	Fenzl	
		US-2,665,084	01-05-1954	Feeney et al.	
		US-2,864,239	12-16-1958	Taylor	
		US-2,891,740	06-23-1959	Campbell	
		US-2,920,844	01-12-1960	Marshall et al.	
		US-2,990,144	06-27-1961	Hougland	
		US-2,990,145	06-27-1961	Hougland	
		US-2003-0058134	03-27-2003	Lance Sherry	
		US-2003-0132860	07-17-2003	Thea Feyereisen	
		US-2004-0004162	01-08-2004	Kevin Beyer	
		US-2004-0059474	03-25-2004	Daniel Boorman	
		US-3,102,607	09-03-1963	Roberts	
		US-3,112,089	11-26-1963	Dornier	
		US-3,191,147	06-22-1965	Majendie	
		US-3,375,998	04-02-1968	Alvarez-Calderon	
		US-3,447,763	06-03-1969	Allcock	
		US-3,504,870	04-07-1970	Cole et al.	
		US-3,556,439	01-19-1971	Autry et al.	
		US-3,704,828	12-05-1972	Studer et al.	
		US-3,704,843	12-05-1972	Jenny	
		US-3,743,219	07-03-1973	Gorges	
		US-3,794,276	02-26-1974	Maltby et al.	
		US-3,831,886	08/1974	Burdges et al.	
		US-3,836,099	09/1974	O'Neill et al.	
		US-3,837,601	09-24-1974	Cole	
		US-3,862,730	01-28-1975	Heiney	
		US-3,910,530	10-07-1975	James et al.	
		US-3,941,334	03-02-1976	Cole	
		US-3,941,341	03-02-1976	Brogdon, Jr.	
		US-3,994,451	11-30-1976	Cole	
		US-4,015,787	04-05-1977	Maieli et al.	
		US-4,117,996	10-03-1978	Sherman	
		US-4,131,253	12-26-1978	Zapel	
		US-4,171,787	10-23-1979	Zapel	
/C.B./		US-4,189,120	02-19-1980	Wang	
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/C.B./	US-4,189,121	02-19-1980	Harper et al.	
	US-4,189,122	02-19-1980	Miller	
	US-4,200,253	04/1980	Rowarth	
	US-4,247,843	01-27-1981	HARRY MILLER	
	US-4,262,868	04-21-1981	ROY D. DEAN	
	US-4,275,942	06-30-1981	Steidl	
	US-4,285,482	08-25-1981	Lewis	
	US-4,293,110	10-06-1981	WILBUR DUFF MIDDLETON	
	US-4,312,486	01-26-1982	MAURICE E. MC KINNEY	
	US-4,325,123	04-13-1982	DONALD A. GRAHAM	
	US-4,351,502	09-28-1982	FRANK D. STATKUS	
	US-4,368,937	01-18-1983	Palombo et al.	
	US-4,427,168	01-24-1984	MAURICE E. MC KINNEY	
	US-4,461,449	07-24-1984	Turner	
	US-4,471,927	09-18-1984	PETER K. C. RUDOLPH	
	US-4,475,702	10-09-1984	JAMES B. COLE	
	US-4,485,992	12-04-1984	DHANVADA M. RAO	
	US-4,496,121	01-29-1985	J. BURTON BERLIN	
	US-4,553,722	11-19-1985	JAMES B. COLE	
	US-4,575,030	03-11-1986	LOUIS B. GRATZER	
	US-4,650,140	03-17-1987	JAMES B. COLE	
	US-4,700,911	10-20-1987	HERBERT ZIMMER	
	US-4,702,441	10-27-1987	TIMOTHY WANG	
	US-4,706,913	11-17-1987	JAMES B. COLE	
	US-4,717,097	01-05-1988	JAMES L. SEPSTRUP	
	US-4,784,355	11-15-1988	GERALD T. BRINE	
	US-4,786,013	11-22-1988	ULRICH POHL	
	US-4,856,735	08-15-1989	MICHAEL LOTZ	
	US-4,860,007	08-22-1989	MICHAEL L. KONICKE	
	US-4,899,284	01-01-2001	GEORGE E. LEWIS	
	US-4,962,902	10-16-1990	RUDY F. FORTES	
	US-5,088,665	02-18-1992	PAUL M. H. W. VIJGEN	
	US-5,094,412	03-10-1992	JIMMY C. NARRAMORE	
	US-5,100,082	03-31-1992	RALPH ARCHUNG	
	US-5,114,100	05-19-1992	PETER K. C. RUDOLPH	
	US-5,129,597	07-14-1992	HEINZ MANTHEY	
	US-5,158,252	10-27-1992	SEIYA SAKURAI	
	US-5,167,383	12-01-1992	YOSHIO NOZAKI	
	US-5,203,619	04-20-1993	JOHN H. WELSCH	
	US-5,244,269	09-14-1993	MICHAEL HARRIEHAUSEN	
	US-5,351,914	10-04-1994	TORU NAGAO	
	US-5,420,582	05-30-1995	WOLFGANG KUBBAT	
	US-5,441,218	08-15-1995	HANS-JUERGEN MUELLER	
	US-5,474,265	12-12-1995	PATRICK CAPBERN	
	US-5,535,852	07-16-1996	DAVID J. BISHOP	
	US-5,544,847	08-13-1996	WAYNE T. BLIESNER	
	US-5,600,220	02-04-1997	BRUNO THORAVALL	
	US-5,609,020	03-11-1997	JOHN JACKSON	
/C.B./	US-5,715,163	02-03-1998	ERIC S. BANG	

Examiner Signature	/Christine Behncke/	Date Considered	05/10/2007
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Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/770,256-Conf. #9618
				Filing Date	February 2, 2004
				First Named Inventor	Thomas E. Speer
				Art Unit	3661
				Examiner Name	Not Yet Assigned
Sheet	3	of	4	Attorney Docket Number	030048104US

/C.B./	US-5,743,490	04-28-1998	GARY D. GILLINGHAM	
	US-5,746,490	05-05-1998	GEORG DOMENIG	
	US-5,875,998	01-01-2001	WOLFGANG GLEINE	
	US-5,927,656	07-27-1999	MICHAEL J. HINKLEMAN	
	US-5,934,615	08-10-1999	KURT E. TREICHLER	
	US-5,978,715	11-02-1999	MICHEL BRIFFE	
	US-6,015,117	01-18-2000	MICHAEL C. BROADBENT	
	US-6,045,204	04-04-2000	JOE K. FRAZIER	
	US-6,057,786	05-02-2000	MICHEL BRIFFE	
	US-6,073,624	06-13-2000	ULF LAURENT	
	US-6,076,776	06-20-2000	ELMAR J. BREITBACH	
	US-6,085,129	07-04-2000	MICHAEL T. SCHARDT	
	US-6,109,567	08-29-2000	MANUEL MUNOZ	
	US-6,112,141	08-29-2000	MICHEL BRIFFE	
	US-6,161,801	01-01-2001	ROLAND KELM	
	US-6,188,937	02-13-2001	LANCE C. SHERRY	
	US-6,213,433	04-10-2001	Cynthia Gruensfelder	
	US-6,293,497	09-25-2001	ROBERT H. KELLEY-WICKEMEYER	
	US-6,328,265	12-11-2001	FARUK DIZDAREVIC	
	US-6,349,798	02-26-2002	RICHARD JOHN MCKAY	
	US-6,364,254	04-02-2002	Peter May	
	US-6,375,126	04-23-2002	Seiya Sakurai	
	US-6,389,333	05-14-2002	R. JOHN HANSMAN	
	US-6,443,394	09-03-2002	Norbert Weisend	
	US-6,484,969	08-09-2001	Wilfried Sprenger	
	US-6,547,183	02-06-2003	Jeffrey Farnsworth	
	US-6,554,229	04-29-2003	Lawrence Lam	
	US-6,598,829	10-24-2002	Paulus Kamstra	
	US-6,598,834	01-17-2002	James Nettle	
	US-6,601,801	08-05-2003	Clayton Prow	
	US-6,625,982	09-05-2002	Dominique Van Den Bossche	
	US-6,644,599	08-01-2002	Juan Perez	
	US-6,745,113	12-11-2003	John Griffin	
/C.B./	US-6,796,534	09-28-2004	Kevin Beyer	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
/C.B./		EP-0	103 038	03-21-1984	The Boeing Company		
/C.B./		EP-0	370 640	05-30-1990	Smiths Industries Public Ltd Co		
/C.B./		EP-0	489 521	06-10-1992	Smiths Industries Public Ltd Co		
/C.B./		EP-0	947 421	10-06-1999	British Aerospace Public Ltd Co.		
/C.B./		GB-2	144 688A	03-13-1985	British Aerospace Public Ltd Company		
/C.B./		GB-886,	136	01-03-1962	Majendie		
/C.B./		WO-02/24530		03-28-2002	Honeywell International Inc.		
Examiner Signature	/Christine Behncke/				Date Considered	05/10/2007	



Substitute for form 1449A/B/PTO		<b>Complete If Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/770,256-Conf. #9618		
		Filing Date	February 2, 2004		
		First Named Inventor	Thomas E. Speer		
		Art Unit	3661		
		Examiner Name	Not Yet Assigned		
Sheet	4	of	4	Attorney Docket Number	030048104US

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/C.B./	✓	777 High Lift System, 777 Maintenance Manual, Publication Date: Circa 1994 (1 page)	
	✓	777 Transmission - Typical, 777 Maintenance Manual, Publication Date: Circa 1994 (1 page)	
	✓	A320 Hinterkanten-Klappen-Verstell System, Trailing Edge Flap System, SAE Presentation, Publication Date: Circa 1990 (1 page)	
	✓	A340 Flight Controls, SAE Presentation, Publication Date: Circa 1995 (1 page)	
		Boeing, 777 Aircraft Maintenance Manual, September 5, 2002 (page 39)	
	✓	DRELA, Mark, "Design and Optimization Method for Multi-Element Airfoils," MIT Department of Aeronautics and Astronautics, Copyright 1993 American Institute of Aeronautics and Astronautics, Inc. (pgs 1-11)	
	✓	European Search Report for European Patent Application No. EP 03 07 7840, The Boeing Company, November 4, 2003 (2 pgs)	
	✓	Flap Drive System, 777 Maintenance Manual, Publication Date: Circa 1994 (1 page)	
	✓	Flap Transmission and Support, 777 Maintenance Manual, Publication Date: Circa 1994 (1 page)	
	✓	International Search Report, PCT/US03/19724/ September 11, 2003, 5 pages	
	✓	MOOG, Component Maintenance Manual, May 1994 (2 pages)	
/C.B./	✓	NIU, Chen-Yen, Airframe Structural Design, Chen-Yeun Niu, Conmilit Press, 1988 (1 page)	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/C.B./		**US-60/475,828		Kevin W. Beyer	
/C.B./		**US-10/454,417		Neal V. Huynh	
/C.B./		US-6,591,169	07-08-2003	Jones et al.	

FOREIGN PATENT DOCUMENTS							
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		Country Code <sup>3</sup>	Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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